NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/VPD/2020-21/WS/TH.C.B1A

Date: 03.03.2021

I. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength)
(Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division-1)
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-02-21	03-03-21	28	22500	505	22.44	22.83
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	500	22.22	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Thirumenahalli 2nd Block 1st Cross Road

Page No. 1/1,

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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NEWEEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES IN CONCRETE

Date: 08.03.2021

[illegible]

Report Required for : Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency Contacted : Sri. U Ramesh Anand, Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete : M_{30}

TABLE 1.1

Sl No	Location/ Identification	Date of Casting	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg Value
1	001	08.03.21	08.03.21	28	22800	503	22.44	22.15
	002	"	"	"	"	490	21.78	
	003	"	"	"	"	500	22.22	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd Cross Road

Assistant Executive Engineer
Yelahanka Zone
BBMP, Bangalore - 64

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NC/QC/YPD/2020-21/W5-TH-CB3A Date: 09-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-02-21	09-03-21	28	22500	500	22.22	**22.74**
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	515	22.89	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 3rd Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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NC/QC/YPD/2020-21/W5-TH-CB4A

Date: 12-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-02-21	12-03-21	28	22500	510	22.67	**22.44**
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	500	22.22	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1rd Main Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES IN PROJECTS

NCQC/NPD/2020-21/WS/TILC/RSA

Date: 16-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28days Compressive Strength.

(Project: Improvements of roads and drains at Thirumenahalli (Lake road and surrounding areas in Ward No.95 (Jakkur) Byatarayanapura Sub division.)

Ref.: Material testing EMC/355/21

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in KN	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-02-21	16-03-21	28	22500	515	22.89	22.90
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : 4th Cross Road

Assistant Executive Engineer
Project Division
Yelahanka
BBMP, Bangalore

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NC/QC/YPD/2020-21/W5-TH-CB6A

Date: 19-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-02-21	19-03-21	28	22500	490	21.78	**22.30**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 5th Cross Road

Asst. Executive Engineer
Project Division
Yelahanka
BBMP, Bangalore

NEWZEN CONSULTANT * Bangalore *

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NCQC/VPD/2020-21/WS-TH-CRTA

Date: 22-03-2021

I. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength)
(Project* Improvements of roads and drains at Dharmenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.)

Ref. Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M30

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-02-21	22-03-21	28	22500	500	22.22	22.44
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Block 1st Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 64

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NC/QC/YPD/2020-21/WS-TH-C/08 Date: 01-04-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07 days Compressive Strength).
(Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No 05 (Jakkur) Byatarayanapura Sub division.)
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm²	Maximum Load in K.N	Compressive Strength (N/mm²)	Avg. Value
1	001	25-03-21	01-04-21	07	22500	275	12.22	12.74
	002	"	"	"	"	295	13.11	
	003	"	"	"	"	290	12.89	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Thirumenahalli 1st Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 64

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NC/QC/YPD/2020-21/W5-TH-CB8A

Date: 22-04-2021

1, TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref. Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg Value
1	001	25-03-21	22-04-21	28	22500	405	18.00	17.63
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	395	17.56	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Thirumenahalli 1st Cross Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

NEWZEN CONSULTANT BANGALORE

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NC/QC/YPD/2020-21/W5-TH-GSB1 Date: 07-06-2021

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	98.45	80-100
26.50	74.60	55-90
9.50	46.15	35-65
4.75	32.05	25-50
2.36	18.25	10-20
0.85	7.50	2-10
0.425	3.05	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Main Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

NEWZEN CONSULTANT * Bangalore *

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Date: 07-06-2021

TABLE 1.2

Sl. No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013
1.	Water absorption, %	0.42 %	Not more than 2.0 %
2.	Liquid Limit, %	18.39	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.42	----------
5.	Aggregate Impact Value, %	28.65	Not more than 40.00 %

NEWZEN CONSULTANT Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NC/QC/YPD/2020-21/W5-TH-GSB2

Date: 10-06-2021

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
[Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.]
Ref.: Material testing/PMC/20-21.
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	95.80	80-100
26.50	72.35	55-90
9.50	47.15	35-65
4.75	35.60	25-50
2.36	16.25	10-20
0.85	7.90	2-10
0.425	4.25	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 8th Cross Road

Asst. Executive Engineer
Yelahanka Project Division
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

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Date: 10.08.2021

TABLE 1.2

Sl. No	Test conducted	Test Results	Tests Conforms to IS 2386 Part I to IV - 1963 (Reaffirmed in 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision 2013
1.	Water absorption, %	0.41 %	Not more than 2.0 %
2.	Liquid Limit, %	18.56	Not more than 35.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.34	----------
5.	Aggregate Impact Value, %	28.72	Not more than 40.00 %

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/WS-TH-W1 Date: 14-06-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.15	95-100
26.50	---	-
22.40	74.25	60-80
11.20	52.40	40-60
4.75	34.15	25-40
2.36	22.60	15-30
0.600	18.35	8-22
0.075	3.85	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Main Road

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Date: 14-06-2021

TABLE 1.2

Sl. No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV) - 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.84%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.39%	Not more than 35.0 %
3.	Water absorption, %	0.42 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-TH-W2 Date: 18-06-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.35	95-100
26.50	—	-
22.40	72.15	60-80
11.20	54.10	40-60
4.75	32.45	25-40
2.36	25.60	15-30
0.600	19.05	8-22
0.075	3.20	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 6th Cross Road

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Date: 18.06.2021

TABLE 12

Sl. No	Test conducted	Test Results	Test Conforms to IS 2386 (Part I to IV)-1963 / Test(Format as 2386) & Requirements as per IS 383-1970 & MoRTH Specification, V Revision, 2013
1	Aggregate Impact Value	27.88%	Not more than 30.00 %
2	Combined Flakiness and Elongation index, %	28.73%	Not more than 35.0 %
3	Water absorption, %	0.42 %	Not more than 2.0 %
4	Plasticity Index, %	NP	Not more than 6.0 %

Assistant Executive Engineer
Yelahanka Zone
BBMP, Bangalore - 92

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/W5-TH-W3

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Date: 23-06-2021

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.

1. Gradation Test: **TEST RESULTS**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.40**	95-100
26.50	**---**	-
22.40	**72.15**	60-80
11.20	**54.25**	40-60
4.75	**36.65**	25-40
2.36	**23.80**	15-30
0.600	**17.30**	8-22
0.075	**4.15**	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 7th Cross Road

Assistant Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Date: 23-06-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.63%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.39 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

Asst. Executive Engineer
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NC/QC/YPD/2020-21/W5-TH-BD1 Date: 02-07-2021

1. TEST REPORT ON BITUMEN SAMPLE:

Sub. Testing of Bitumen sample VG-30 Grade.
{Project*: Improvements of roads and drains at Thirumenahalli Lake road and Surrounding area in Ward No.05 (Jakkur) Byatarayanapura Sub division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. E Ramesh Anand, Bangalore.
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	52.70^0 C	Min. 45
2.	Ductility Value at 25^0 C	108.90 cm	40
3.	Flash point	245^0 C	Minimum 220^0 C
4.	Softening point	51.40^0 C	Min. 47

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 1st Main Road

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